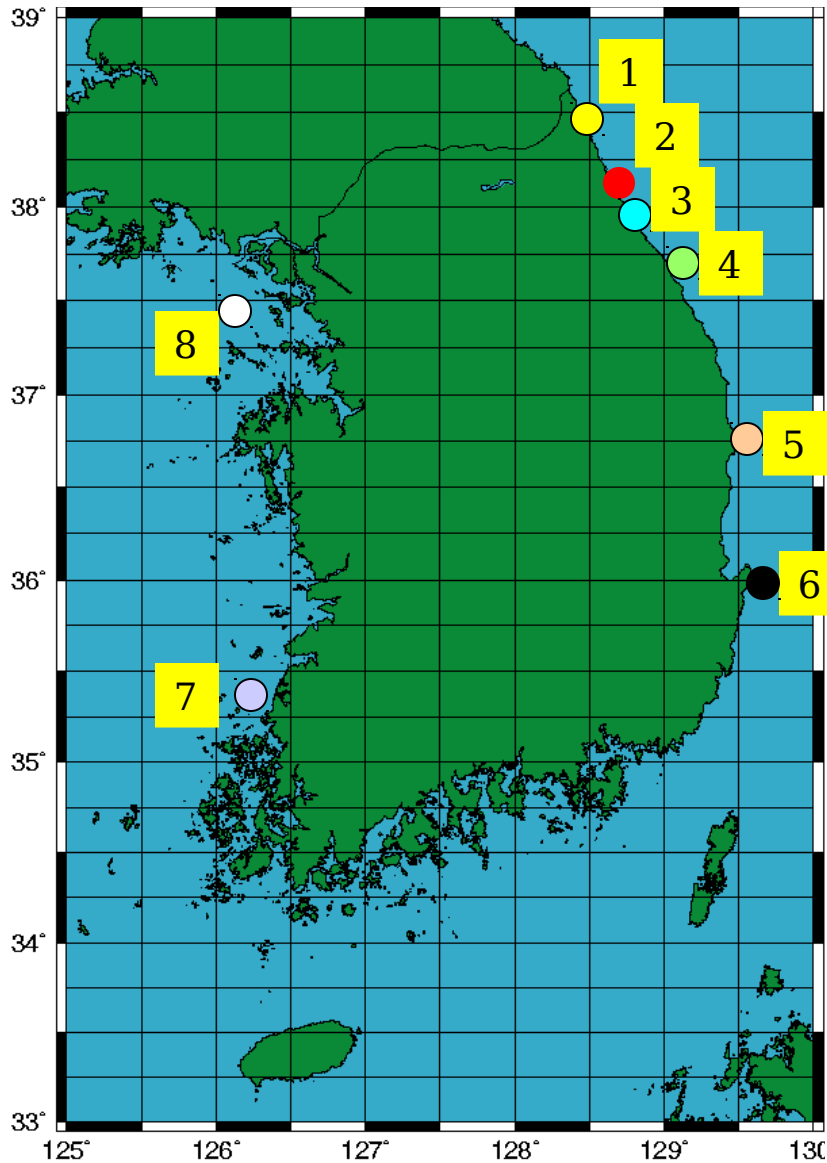
An aerial photograph of a coastal town, likely Sitka, Alaska, nestled in a valley between dense green forests. The town's harbor is filled with numerous small boats and larger vessels. In the background, a large, snow-capped mountain, Mount Sitka, rises majestically above the town and the surrounding water. The sky is a clear, pale blue.

Worldwide Small Port Survey and Analysis

Why?

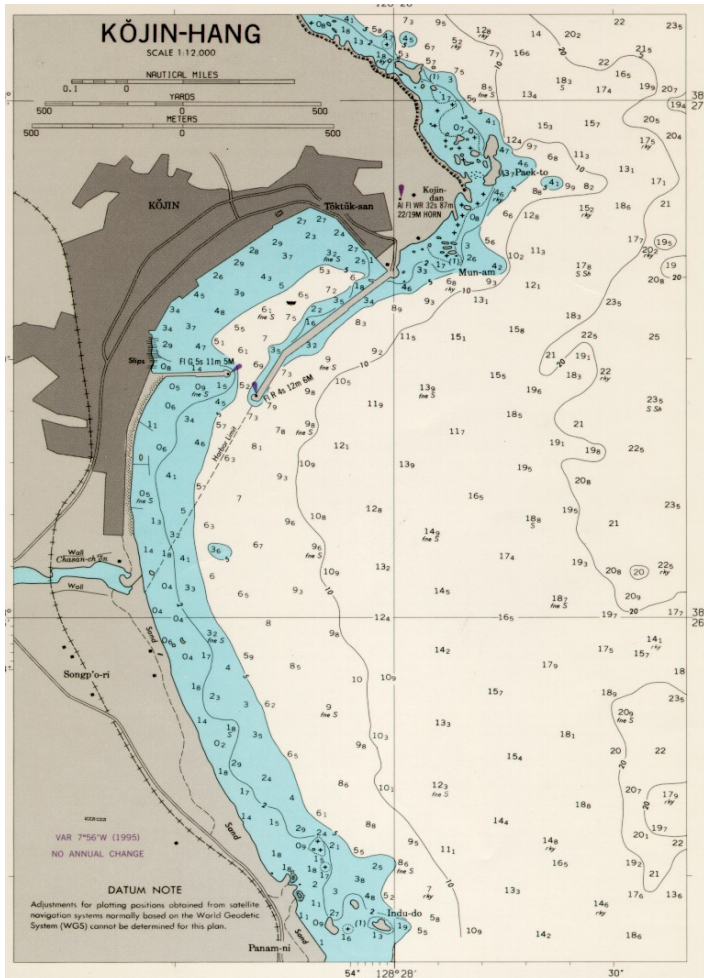
- Initially, to determine the optimum TSV characteristics
 - Limited area
 - Data collection confined to TSV accommodation
- Large and moderately size ports are already documented
 - World Port Index
 - Lloyds Port Index
 - Sailing Directions
- Complete survey of small port in all militarily significant geographical areas to support SEA-OF
 - Bathymetry
 - Topography
 - Infrastructure

Korea Survey



- 1 KOJIN-HANG
- 2 SOKCH'O-HANG and TAEP'O-HANG
- 3 CHUMUNJIN-HANG
- 4 KANGNUNG
- 5A HUP'O-HANG
- 5B HUP'O-HANG
- 6 YANGP'O-HANG
- 7 KYEMA-HANG
- 8 KANGHWA-DO

KOJIN-HANG



ADVANTAGES

- Good approach
- Good anchorages inside and outside harbor
- Navigational aids
- Lighted entrance
- Adequate depth and turning basin
- Protected harbor
- Breakwaters
- Quay wall
- Road system and rail access

DISADVANTAGES

- Close proximity to North Korea (10 km)
- No ramps or piers
- No apparent storage facilities
- Limited staging area
- No apparent cargo handling equipment

ESTIMATED SUPPORT REQUIREMENTS

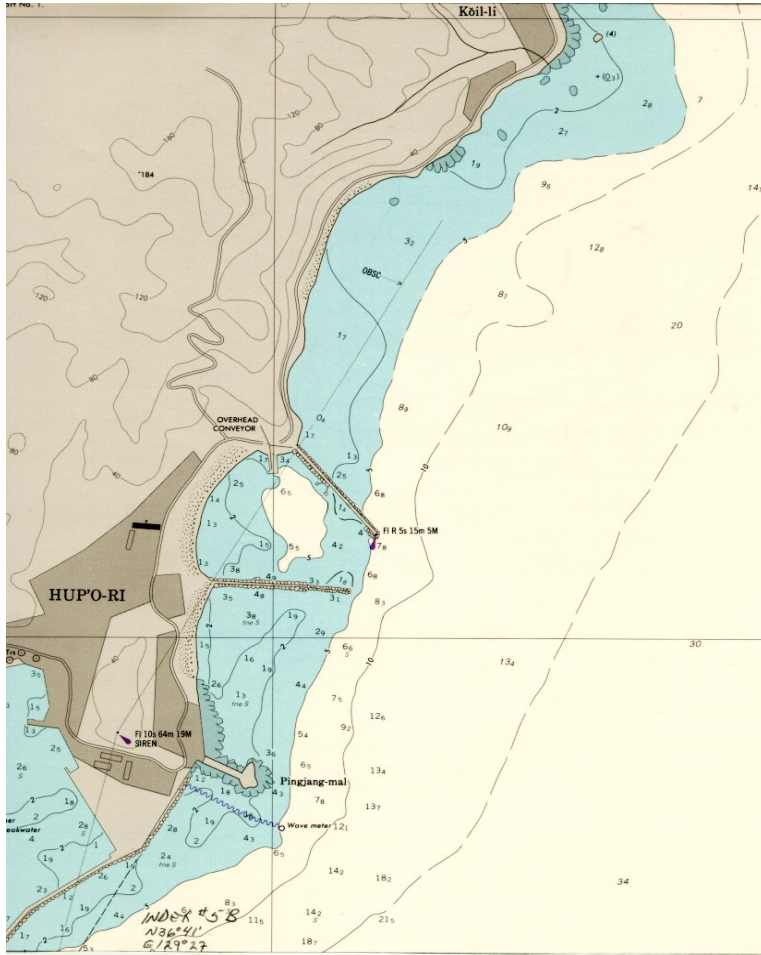
- Build ramp(s), pier, and staging area

SURVEY REQUIREMENTS

- Staging area
- Quality rail/road network
- Survey tidal range
- Sea and wind condition forecasts

LAT: 38° 24' N
LONG: 128° 27' E

HUP'O-HANG (B)



ADVANTAGES

- Protected harbor
- Good anchorages inshore and offshore
- Navigational aid
- Small jetty
- No additional piers or ramps required
- Additional unprotected sand beach NE of breakwater
- Sand beach, good gradient within harbor

DISADVANTAGES

- No rail access
- Unprotected sand beach

ESTIMATED SUPPORT REQUIREMENTS

- Inshore beach protection

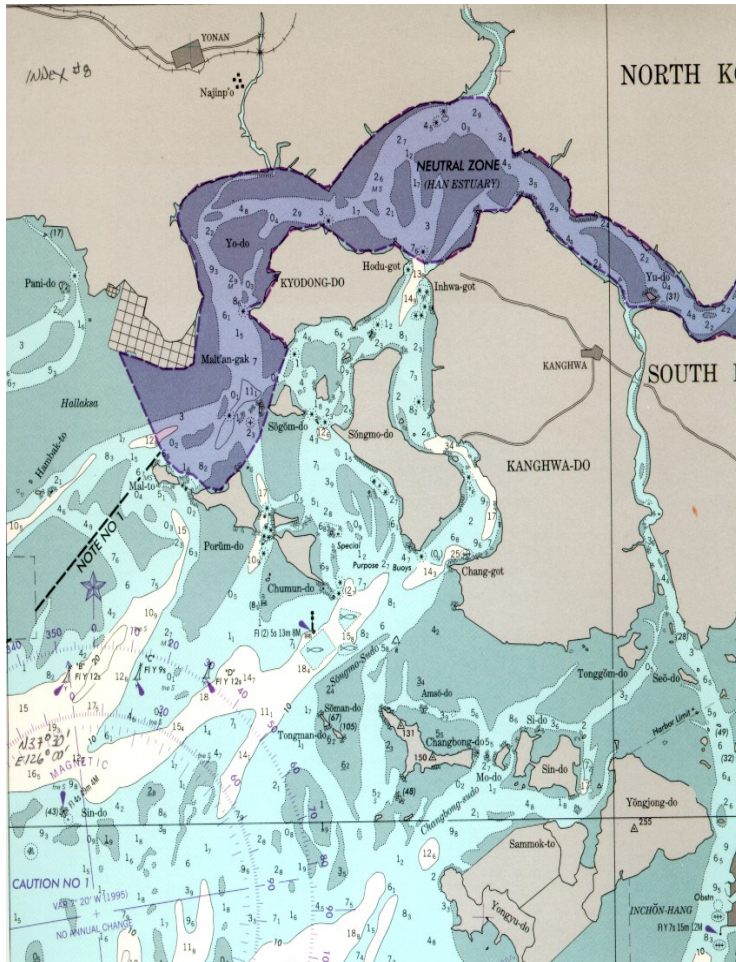
SURVEY REQUIREMENTS

- Gradient
- Survey tidal range
- Sea and wind condition forecasts

LAT: 36° 41'
N
LONG: 129° 27'

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KANGHWA-DO



ADVANTAGES

- Near DMZ (10 km)
- Adequate harbor and turning basin
- Apparent beaching area
- Road access
- Approach navigational aids

DISADVANTAGES

- Near DMZ
- No facilities

ESTIMATED SUPPORT REQUIREMENTS

- Build ramp(s), piers, facilities, and staging area

SURVEY REQUIREMENTS

- Total survey required for suitability
- May be useable for J/LOTS only

LAT: 37° 30'
N
LONG: 126° 00'
E

INDEX # 8